

I claim:

1 1. A system for adjusting the frequency response of subwoofer systems
2 comprising:

3 a user interface configured to receive user-adjustable variables indicative of main
4 speaker characteristics; and

5 a compensation circuit configured to produce a desired low-frequency signal from
6 an input signal in response to the user-adjustable variables.

1 2. The system of claim 1, wherein the main speaker characteristics comprise
2 low-frequency characteristics of the main speaker.

1 3. The system of 1, wherein the user adjustable variables comprise a low-
2 frequency cutoff frequency.

1 4. The system of 1, wherein the user adjustable variables comprise a low-
2 frequency damping factor.

1 5. The system of 1, wherein the user adjustable variables comprise a speaker
2 sensitivity factor.

1 6. The system of 1, wherein the user adjustable variables comprise an
2 enclosure type.

1 7. The system of 1, wherein the user adjustable variables comprise a gain
2 factor.

1 8. A method for adjusting the frequency response of subwoofer systems,
2 comprising the steps of:
3 inputting user adjustable settings indicative of main speaker characteristics; and
4 producing a desired low-frequency signal in response to the user adjustable
5 settings.

1 9. The method of claim 8, wherein main speaker characteristics comprise low-
2 frequency characteristics of the main speaker.

1 10. The method of claim 8, wherein the main speaker characteristics comprise a
2 low-frequency cutoff frequency.

1 11. The method of claim 8, wherein the main speaker characteristics comprise a
2 low-frequency damping factor.

1 12. The method of claim 8, wherein the main speaker characteristics comprise a
2 speaker sensitivity factor.

1 13. The method of claim 8, wherein the main speaker characteristics comprise
2 an enclosure type.

1 14. The method of claim 8, wherein the main speaker characteristics comprise a
2 gain factor.

1 15. A system for adjusting the frequency response of subwoofer systems,
2 comprising:

3 means for inputting a plurality of user adjustable setting indicative of main-speaker
4 characteristics;

5 means for receiving an input signal; and

6 means for producing a desired low-frequency signal from the input signal in
7 response to the plurality of user adjustable setting.

1 16. The system of claim 15, wherein the main speaker characteristics comprise
2 low-frequency characteristics of the main speaker.

1 17. The system of claim 15, wherein the means for producing the desired low-
2 frequency signal further comprises means for setting a low-frequency cutoff-frequency of
3 the main speaker.

1 18. The system of claim 15, wherein the means for producing the desired low-
2 frequency signal further comprises means for setting a low-frequency damping factor of
3 the main speaker.

1 19. The system of claim 15, wherein the means for producing the desired low-
2 frequency signal further comprises means for setting a gain of the main speaker.